What Is Claimed Is:

- 1. An isolated nucleic acid molecule comprising a polynucleotide having a nucleotide sequence at least 95% identical to a sequence selected from the group consisting of:
- (a) a nucle otide sequence encoding a polypeptide comprising amino acids from about -19 to about 231 in SEQ ID NO:2;
- (b) a nucleotide sequence encoding a polypeptide comprising amino acids from about -18 to about 231 in SEQ ID NO:2;
- (c) a nucleotide sequence encoding a polypeptide comprising amino acids from about 1 to about 231 in SEQ ID NO:2;
- (d) a nucleotide sequence encoding a polypeptide having the amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97756;
- (e) a nucleotide sequence encoding the mature connective tissue growth factor-3 polypeptide having the amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97756; and
- (f) a nucleotide sequence complementary to any of the nucleotide sequences in (a), (b), (c), (d), or (e).
- 2. The nucleic acid molecule of claim 1, wherein said polynucleotide has the nucleotide sequence of the cDNA clone contained in ATCC Deposit No. 97756.
- 3. The nucleic acid molecule of claim 1, wherein said polynucleotide has the nucleotide sequence encoding the connective tissue growth factor-3 polypeptide having the amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97756.

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- 4. The nucleic acid molecule of claim 1, wherein said polynucleotide has the nucleotide sequence encoding the mature connective tissue growth factor-3 polypeptide having the amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97756.
- 5. An isolated nucleic) acid molecule, comprising a polynucleotide which hybridizes under stringent hybridization conditions to a polynucleotide having a nucleotide sequence identical to a nucleotide sequence in (a), (b), (c), (d), (e), or (f) of claim 1, wherein said polynucleotide which hybridizes does not hybridize under stringent hybridization conditions to a polynucleotide having a nucleotide sequence consisting of only A residues or of only T residues.
- 6. An isolated nucleic acid molecule comprising a polynucleotide which encodes the amino acid sequence of an epitope-bearing portion of a connective tissue growth factor-3 polypeptide having an amino acid sequence in (a), (b), (c), (d), (e), or (f) of claim 1.
- 7. The isolated nucleic acid/molecule of claim 6, which encodes an epitope-bearing portion of a connective tissue growth factor-3 polypeptide selected from the group consisting of: a polypeptide comprising amino acid residues from about 36 to about 49 in SEQ ID NO:2; a polypeptide comprising amino acid residues from about 75 to about 109 in SEQ ID NO:2; a polypeptide comprising amino acid residues from about 115 to about 139 in SEQ ID NO:2; and a polypeptide comprising amino acid residues from about 196 to about 230 in SEQ ID NO:2.
- 8. An isolated nucleic acid molecule, comprising a polynucleotide having a sequence selected from the group consisting of:
- (a) a nucleotide sequence of a fragment of the sequence comprising nucleotides 1-231 of SEQ ID NO:1, wherein said fragment comprises

at least 50 contiguous nucleotides, provided that said isolated nucleic acid molecule does not have the sequence shown in SEQ ID NO: 11, or a subfragment thereof; and

- a nucleotide sequence complementary to a nucleotide (b) sequence in (a).
- 9. A method for making a recombinant vector, comprising inserting an isolated nucleic acid molecule of claim 1 into a vector.
 - 10. A recombinant vector produced by the method of claim 9.
- 11. A method of making a recombinant host cell comprising introducing the recombinant vector of claim 10 into a host cell.
 - 12. A recombinant host cell produced by the method of claim 11.
- A recombinant method for producing a connective tissue growth 13. factor-3 polypeptide, comprising pulturing the recombinant host cell of claim 12 under conditions such that said polypeptide is expressed and recovering said polypeptide.
- An isolated connective tissue growth factor-3 polypeptide having 14. an amino acid sequence at least 95% identical to a sequence selected from the group consisting of:
 - amino acids from about -19 to about 231 in SEQ ID NO:2; (a)
 - amino acids from about -18 to about 231 in SEQ ID NO:2; (b)
 - (c) amino acids from about 1 to about 231 in SEQ ID NO:2;
- the amino acid sequence of the connective tissue growth (d) factor-3 polypeptide having the amino adid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97756;

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- (e) the amino acid sequence of the mature connective tissue growth factor-3 polypeptide having the amino acid sequence encoded by the cDNA clone contained in AFCC Deposit No. 97756; and
- (f) the amino acid sequence of an epitope-bearing portion of any one of the polypeptides of (a), (b), (c), (d), or (e).
- 15. An isolated polypeptide of claim 14, comprising an epitope-bearing portion of connective tissue growth factor-3, wherein said portion is selected from the group consisting of: a polypeptide comprising amino acid residues from about 36 to about 49 in SEQ ID NO:2; a polypeptide comprising amino acid residues from about 75 to about 109 in SEQ ID NO:2; a polypeptide comprising amino acid residues from about 115 to about 139 in SEQ ID NO:2; and a polypeptide comprising amino acid residues from about 230 in SEQ ID NO:2.
- 16. The isolated polypeptide of claim 14, which is produced or contained in a recombinant host cell.
- 17. The isolated polypeptide of claim 16, wherein said recombinant host cell is mammalian.
- 18. An isolated nucleic acid molecule comprising a polynucleotide encoding a connective tissue growth factor-3 polypeptide wherein, except for one to fifty conservative amino acid substitution, said polypeptide has a sequence selected from the group consisting of:
- (a) a nucleotide sequence encoding a polypeptide comprising amino acids from about -19 to about 231 in SEQ ID NO:2;
- (b) a nucleotide sequence encoding a polypeptide comprising amino acids from about -18 to about 23 in SEQ ID NO:2;

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- a nucleotide sequence encoding a polypeptide comprising (c) amino acids from about 1 to about 231 in SEQ ID NO:2;
- (d) a nucleotide sequence encoding a polypeptide having the amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97756;
- (e) a nucledtide sequence encoding the mature connective tissue growth factor-3 polypeptide having the amino acid sequence encoded by the cDNA clone contained in ATC¢ Deposit No. 97756; and
- (f) a nucleotide sequence complementary to any of the nucleotide sequences in (a), (b), (c), (d), or (e).
- 19. An isolated connective tissue growth factor-3 polypeptide wherein except for one to fifty conservative amino acid substitutions, said polypeptide has a sequence selected from the group consisting of:
 - amino acids from about -19 to about 231 in SEQ ID NO:2; (a)
 - amino acide from about -18 to about 231 in SEQ ID NO:2; (b)
 - amino acids from about 1 to about 231 in SEQ ID NO:2; (c)
- the amino acid sequence of the connective tissue growth (d) factor-3 polypeptide having the amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97756;
- (e) the amino acid sequence of the mature connective tissue growth factor-3 polypeptide having the amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97756; and
- the amino acid sequence of an epitope-bearing portion of (f) any one of the polypeptides of (a), (b), (c) (d), or (e).
- 20. An isolated antibody or antibody fragment that binds specifically to a connective tissue growth factor-3 polypeptide of claim 14.

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- 22. A method for treating an individual in need of an increased level of connective tissue growth factor-3 activity, comprising administering to said individual a composition comprising the isolated connective tissue growth factor-3 polypeptide of claim 14.
 - 23. A diagnostic method, comprising:
- (a) assaying connective tissue growth factor-3 gene expression level in mammalian cells or body fluid; and
- (b) comparing said connective tissue growth factor-3 gene expression level with a standard connective tissue growth factor-3 gene expression level, whereby an increase or decrease in said connective tissue growth factor-3 gene expression level compared to said standard is indicative of a connective tissue-related disorder.

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